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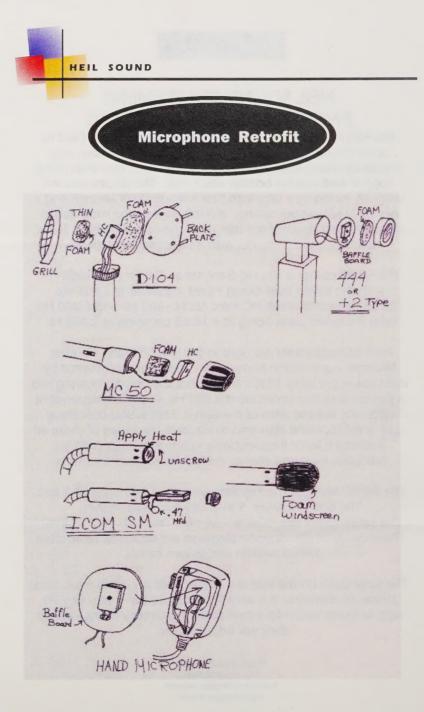
THE HC-- 5 THE HC-4

HC-5 FULL RANGE DYNAMIC ELEMENT

THE PICK FOR EVERYDAY RAGCHEWING, TRAFFIC HANDLING OR CLEAN, CLEAR SSB. RID YOUR STATION OF THE USUAL MUSHY, BASSY OR PAGING TYPE AUDIO. A +6DB RISE AT 2 KHZ (A FREQUENCY THE HUMAN EAR IS HIGHLY RESPONSIVE TO AND RIGHT IN THE MIDDLE OF THE HUMAN VOICE PATTERN) BRINGS GREAT ARTICULATION TO YOUR SIGNAL.

THE HC-4 'THE DX DREAM MACHINE'

IT HAS BECOME THE DEFACTO STANDARD FOR TOP CONTEST AND DX OPERATORS, WORLD WIDE. DESIGNED TO CUT THROUGH PILEUPS AND NOISE, THE HC-4 ACTUALLY PLACES A +10DB RISE AT 2K RIGHT IN THE MIDDLE OF THE HUMAN VOICE RANGE. THE ULTIMATE WEAPON IN THE DXERS ARSENAL. NOT PRETTY SOUNDING—JUST IN YOUR FACE EXTREME AUDIO. OVER THE YEARS IT THAS TRULY EARNED THE RIGHT TO BE CALLED THE 'DX DREAM MACHINE'.



HEIL SOUND KEY ELEMENT ENGINEERING SPECIFICATIONS

The Heil HC-4 and HC-5 elements were designed in 1983 to solve the problem of mushy, bassy SSB audio. These very special elements from Heil Sound are dynamic elements using copper wire wound bobbin voice coils. The diaphrams are uniquely tuned by a labyrinth that is made up of an inch and a half of 3/32" copper tubing. It is this tuned tube mounted at the center of the voice coil that gives the opportunity to TUNE each of these elements with it's specific audio peaks.

The -3 dB points of the HC-5 are set at 300 Hz and 5,000 Hz. with the tuned peak being +6 dB centered at 2,000 Hz. The -3 dB points of the HC-4 are set at -600 Hz and 6,000 Hz. with the tuned peak being at + 10 dB centered at 2,000 Hz.

Both of these peaks are right in the middle of the Fletcher-Munson curve of the human ear. This curve, discovered by Bell Labs in the early 1930's shows that the human hearing has a tremendous loss centered at 2,000 Hz. and VERY dependent upon the volume level of the signal. Heil Sound built these special microphone elements to equalize the losses of those all important voice frequencies and bring them back to an articulate level and above. Perfect for SSB transmissions.

The IMPEDANCE of the Key Elements are 1,000 ohms @ 1 kHz.

The both measure .530 x .850 x ..310 inches.

The sensitivity of the HC-4 is -66 dB. The HC -5 is -68 dB.

These dynamic microphone elements are designed to be close talked—within one to two inches.

The small pads on the side are solder pads on a micro p.c. card inside the element. It is very important to use a very tiny 20 watt or lower solder tip when soldering directly to the pads or they will be destroyed.

Phone: 618-257-3000 Fax: 618-257-3001 Email: info@heilsound.com www.heilsound.com

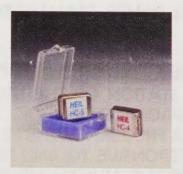
BUILT BY THOSE WHO CARE IN FAIRVIEW HEIGHTS, IL



HEIL SOUND

THE KEY ELEMENT

SSB Clarity Starts at the microphone....



Heil Sound, the company that pioneered proper audio techniques for major touring groups such as the WHO, Grateful Dead, Joe Walsh, Peter Frampton, Billy Graham Crusade and many others during the 1970's now brings you one of the biggest audio advancements in SSB since the 'Donald Duck vs. the AM days.

The 'stock' microphones today are not made by the transceiver manufacturers but by O.E.M. companies who design microphones for paging or public address— NEVER intended for a specialized SSB transmitter. No one microphone can be all things to all hams, so the Heil HC Key Elements are built for maximum clarity of SSB transmitters.

Sinead.
UPC 10331
No. 1531-1



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